

PS112 Colloidal Silica Densifier WB Penetrating Sealer

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1 Identification

Product Identifier

Product Form: Mixture

Identification of Substance: Silicon Dioxide and Water

Product Name: PS112 Colloidal Silica Densifier WB Penetrating Sealer

Synonyms: Colloidal Silica Sol

Relevant identified uses of the substance or mixture and uses advised against

Recommended Use: Concrete Densifier and Hardener

Restrictions on Use: No data.

Details of the supplier of the Safety Data Sheet**Company Identification:**

Concrete Sealers USA

P.O. Box 5464

De Pere, WI 54115

888-583-2991

Emergency telephone number

24 Hour Emergency Phone Number: 800-424-9300

2 Hazard(s) Identification

Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Not classified.

Classification according to Regulation (EC) No. 1272/ 2008 (CLP)

Not classified.

Label elements - Labelling according to Regulation (EC) No. 1272/ 2008

Not labelled.

Signal Word: Not applicable.

Hazard Pictogram: Not applicable.

Hazard Statement (s): Not applicable.

Precautionary Statement (s): Not applicable.

Other hazards

Components do not meet the criteria for a PBT or VPvB substance.

Unknown acute toxicity (GHS US)

No further relevant information available.

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3 Composition / Information on Ingredients

Chemical characterization: Mixture

Component Name	Product Identifier	GHS Classification	% by Weight
Silicon Dioxide	CAS# 7631-86-9	Not Classified	13-16
Proprietary	Proprietary	N/A	<1
Water	CAS# 7732-18-5	Not Classified	84-87

The supplier currently has no knowledge on additional ingredients that are classified and that contribute to the classification of this substance.

4 First-Aid Measures

Description of first aid measures

Eye Contact:	Immediately flush eyes with plenty of water for at least 15 minutes. Hold eyelids apart while flushing to rinse surface of the eye and lids with water. Get medical attention.
Skin Contact:	Wash skin with plenty of soap and water for several minutes. Get medical attention if skin irritation develops or persists. Remove contaminated clothing.
Inhalation:	Remove person from exposure. Seek immediate medical care if respiratory irritation, dizziness, nausea or unconsciousness occurs. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Consult medical professional.
Ingestion:	Consult medical professional. Do not induce vomiting unless directed by medical professional. Never give anything by mouth to an unconscious person.
First Aid Facilities:	Eye wash station.
Advice to Physicians:	No further relevant information available.
Most important symptoms and effects, both acute and delayed	
Acute or delayed effects are not anticipated.	
Indication of any immediate medical attention and special treatment needed	
No further relevant information available.	

5 Fire-Fighting Measures

Extinguishing media

Suitable Extinguishing Media:	All are suitable. Use water spray, dry chemical, foam or carbon dioxide to extinguish flames. Use water spray to cool fire--exposed containers. Water or foam may cause frothing.
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Special hazards arising from the substance or mixture

Flammability of the Product:	Material will not burn in a fire. Containers can build pressure if exposed to heat or fire.
Special Hazard Arising from the Chemical:	None known.
Fire Hazard:	None known.
Explosion Hazard:	None known.
Reactivity:	None known.

Advice for firefighters

Special Protective Equipment for Firefighters:	Wear standard full firefighter turn-out gear (full bunker gear) and respiratory protection (SCBA).
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6 Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapor, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas.

For non-emergency personnel

Wear protective equipment. Keep unprotected persons away.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Prevent entry into sewers/ surface and ground water.

Methods and material for containment and cleaning up

Ventilate area. Avoid breathing vapor. Wear appropriate personal protective equipment, including appropriate respiratory protection. Contain spill if possible. Wipe up or absorb on suitable material and shovel up. Prevent entry into sewers and waterways. Avoid contact with skin, eyes or clothing.

Reference to other sections

For more information on exposure controls and personal protection or disposal considerations, check section 8 and 13 of this SDS.

7 Handling and Storage

Precautions for safe handling

Avoid contact with skin and eyes. Avoid generating mist, vapor, or dust during use. Take measures to prevent the build up of electrostatic charge.

Protective measures

Use only in well ventilated areas. As a precautionary measure, the wearing of standard work gear is suggested. Keep ignition sources away. Do not smoke. Protect from heat. Protect against electrostatic charges.

Advice on general occupational hygiene

Avoid inhalation, ingestion or contact with skin. General occupational hygiene measures are required to ensure a safe handling of the substance. These measures involve good personal and housekeeping practices (i.e. regular cleaning with suitable cleaning devices), no eating, drinking and smoking at the workplace and wearing standard working clothes and shoes unless otherwise stated. Wash hands after use. Remove contaminated clothing and protective equipment before entering eating areas. Shower and change clothes at end of work shift. Do not wear contaminated clothing at home.

Conditions for safe storage, including any incompatibilities

Do not freeze. Keep container tightly closed in a dry and well ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Specific end use (s)

No additional information is available. Refer to section 1 of this SDS.

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8 Exposure Controls / Personal Protection

Control Parameters**National Limit Values****Silicon Dioxide, CAS# 7631-86-9**

Country	Occupational Exposure Limit	Reference Period
USA	80 mg/ m ³ / %SiO ₂	8 hours
UK	6 mg/ m ³	8 hours
Germany	4 mg/ m ³	8 hours
Belgium	10 mg/ m ³	8 hours
Austria	2 mg/ m ³	8 hours

DNELS and PNECS**Silicon Dioxide, CAS# 7631-86-9****DNEL (Derived No Effect Level)****Route of Exposure/ Environmental Protection Target**

Inhalation - Long term/ systemic effects

4 mg/ m³**PNEC (Predicted No Effect Concentration)**

No information available.

Exposure Controls**Engineering Controls:**

Exhaust ventilation to keep airborne concentrations below exposure limits.

Hygiene Measures:

Workers should wash exposed skin several times daily with soap and water. Soiled work clothing should be laundered or dry-cleaned.

Respiratory:

Airborne concentrations should be kept to lowest levels possible. When respiratory protection is required or concentrations are unknown, use an approved air-purifying respirator with organic vapor cartridge.

Hands:

Wear impervious gloves such as neoprene.

Eyes:

Safety glasses, chemical type goggles, or face shield recommended to prevent eye contact.

Skin:

Wear clean body-covering clothing; impervious gloves such as neoprene. Workers should wash exposed skin several times daily with soap and water. Soiled work clothing should be laundered or dry-cleaned.

Environmental Exposure Controls:

Adverse effects of this material on the environment have not been evaluated. Proper disposal techniques to isolate and recover material should be implemented.

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9 Physical and Chemical Properties

Information on basic physical and chemical properties

Appearance (Physical State, Color):	Translucent liquid
Upper/ lower flammability or explosive limits:	Not determined.
Volatile by Weight:	85%
Odor:	Odorless
Vapor Pressure:	2260 kPs (17 mm Hg) at 20° C
Odor Threshold:	Not determined.
Vapor Density:	Not determined.
pH:	9-10
Relative Density:	1100 kg/ m ³
Melting Point:	Not determined.
Solubility in Water:	Soluble in water
Boiling point and Boiling Range:	100° C (212° F) water
Flashpoint:	Not applicable.
Evaporation Rate:	Slow (Butyl Acetate = 1)
Partition Coefficient:	Not determined.
Auto-ignition Temperature:	Not determined.
Decomposition Temperature:	Not determined.
Viscosity:	Less than 10 cP
Specific Gravity:	1.1
Freezing Point:	0° C (32° F)
Explosion Limits:	Not determined.
Oxidizing Properties	Not an oxidizer.

Other information

No further relevant information available.

10 Stability and Reactivity

Reactivity

Not determined.

Chemical stability

Stable under normal ambient and anticipated storage and handling conditions.

Possibility of hazardous reactions

Hazardous polymerization will not occur.

Conditions to avoid

No recommendation.

Incompatible materials

Gels when mixed with acid.

Hazardous decomposition products

No further relevant information available.

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11 Toxicological Information

Information on toxicological effects

LD50, Rat, Oral Values for classification:

Silicon Dioxide, CAS# 7631-86-9

>5000 mg/ kg

Skin corrosion/ irritation:

Avoid contact with skin, may cause irritation.

Eye damage/ irritation:

Avoid contact with eyes, may cause irritation.

Inhalation:

Use breathing protection when aerosol or mist is formed. Breathing dried dust or spray mist causes irritation. OSHA exposure limit: Amorphous Silica = 20 mppcf (5 mg/M³) SiO₂ respirable dust or mist. 8-hour time weighted average. Exposure analysis method: NIOSH Manual of Analytical Methods, 3rd edition, Method 7501.

Aspiration:

No data available.

Sensitization:

No data available.

Chronic Effects:

No data available.

Carcinogenicity:

No component of this product present levels greater than 0.1% is identified as probable, possible or confirmed human carcinogen by IARS, ACGIH, NTP and OSHA.

12 Ecological Information

Aquatic Toxicity

Silicon Dioxide CAS# 7631-86-9: Not harmful to aquatic organisms.

Persistence and degradability

No further relevant information available.

Bioaccumulative potential

No further relevant information available.

Mobility in soil

No further relevant information available.

Results of PBT and vPvB assessment

PBT/ vPvB assessment not available as chemical safety assessment not required/ not conducted.

Other adverse effects

No further relevant information available.

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13 Disposal Considerations

This information presented only applies to the materials as supplied. The identification based on characteristic (s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations. Recover if possible. Disposal should be in accordance with applicable regional, national and local laws and regulations. This product is not an RCRA hazardous waste in the United States.

14 Transport Information

This product is not restricted for transportation

Regulations

US DOT:	Not regulated.
ICAO/ IATA:	Not regulated.
IMO/ IMDG:	Not regulated.
ADR:	Not regulated.

Environmental Hazards: No further relevant information available.

Special precautions for users: No further relevant information available.

Transport bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not applicable.

15 Regulatory Information

Safety, health and environmental regulations/ legislation specific for substance or mixture:

EPA TSCA Inventory:	All ingredients listed.
State Right-to-Know Laws:	Section 3 of this SDS lists all components of the product.
SARA Section 311/ 312 (29 CFR 1910.1200) Hazards:	Not classified according to GHS.
SARA 313, 304 and CERCLA 102 (A):	No ingredients listed.
California Prop. 65 Components:	No ingredients listed.

Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

International regulations

Canadian Regulations:

Domestic Substance List:

Controlled Products Regulations:

All ingredients listed.

This SDS contains all the information items specified in Schedule 1, Column 3 of the Controlled Products Regulations in a 16-heading format.

Worldwide Chemical Inventories

EINECS (EU):	All ingredients listed.
TSCA (USA):	All ingredients listed.
DSL (Canada):	All ingredients listed.
AICS (Australia):	All ingredients listed.
ENCS (Japan):	All ingredients listed.
ECL (Korea):	All ingredients listed.
PICCS (Philippines):	All ingredients listed.
IECSC (China):	All ingredients listed.

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16 Other Information

NFPA	Health--1	Flammability-- 0	Reactivity--0	Special--None
HMIS	Health--1	Flammability-- 0	Reactivity--0	Protection--Gloves, Safety Glasses

Issue Date: 2-December-2020

Revision Date: 30-November-2024

Revision Note: No data available.

Disclaimer

This SDS has been prepared with data from Concrete Sealers USA, raw material suppliers, and government publications. Information herein is accurate to the best of our knowledge. Suggestions are made without warranty or guarantee of results. Before using, the user should determine the suitability of the products for the intended use, and the user assumes the risk and liability in connection therewith. We do not suggest violation of any existing patents or give permission to practice any patented invention without license.